

Catawba Area Base Labor Market Analysis



South Carolina
Department of
Commerce
Labor Market Information



October 2008

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EXECUTIVE SUMMARY

Population

The Catawba area's population growth has been faster than the state's.

Future population growth is expected to continue to exceed the state rate.

The Catawba area attracts workers predominantly from within its borders.

Almost half live in York County.

Income

Per capita income growth has been below the state and national rates.

Therefore, the Catawba area's per capita income has fallen below the state level.

The Catawba area's average wages are higher than those of the state for the following occupational groups: protective service; sales and related; farming and forestry; and installation, maintenance and repair.

Education

The number of degrees awarded by area post-secondary institutions has increased substantially.

The greatest increase has been in the business field.

Occupations

Almost all occupational groups are expected to have faster growth in the Catawba area than in the state.

Requirements for the Catawba area's workers are expected to grow in the following levels of education and experience:

Work experience in a related field, associate's degree, bachelor's degree and master's degree or higher.

Industry

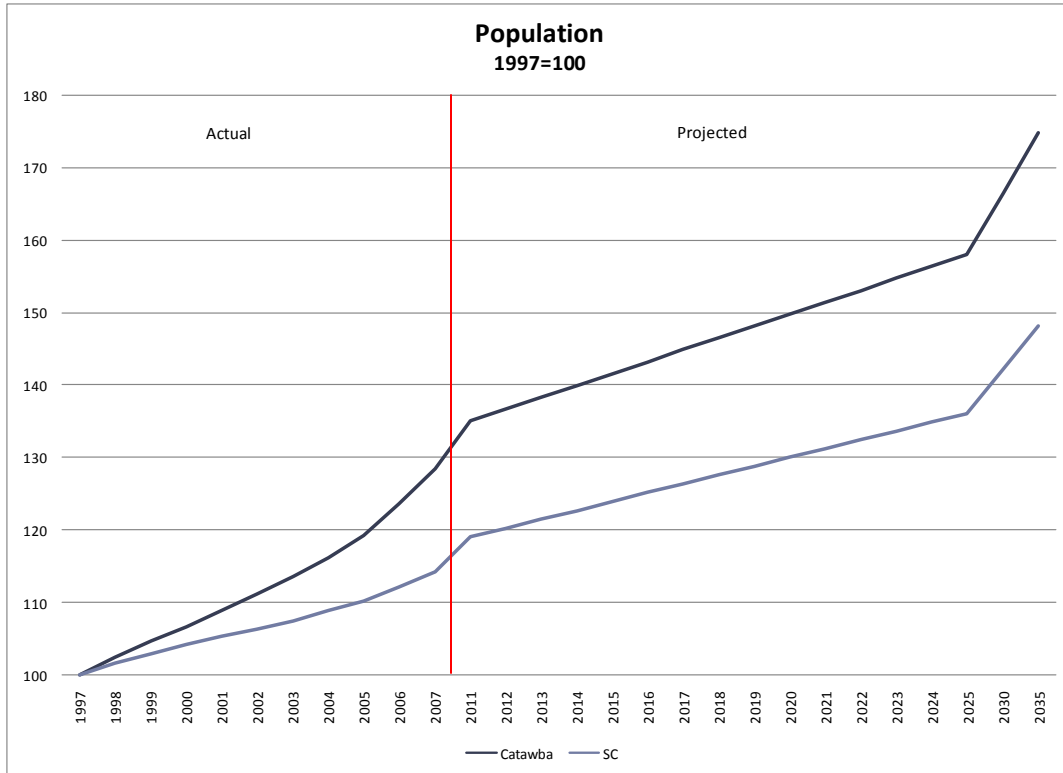
Sectors rated as having high potential in various parts of the Catawba area are as follows:

Heavy and civil engineering construction; construction of buildings; wood product manufacturing; paper manufacturing; chemical manufacturing; nonmetallic mineral products manufacturing; fabricated metal product manufacturing; electrical equipment, appliance and component manufacturing; transportation equipment manufacturing; miscellaneous manufacturing; merchant wholesalers, durable goods; merchant wholesalers, nondurable goods; warehousing and storage; telecommunications; and ambulatory health care services.

POPULATION

Growth

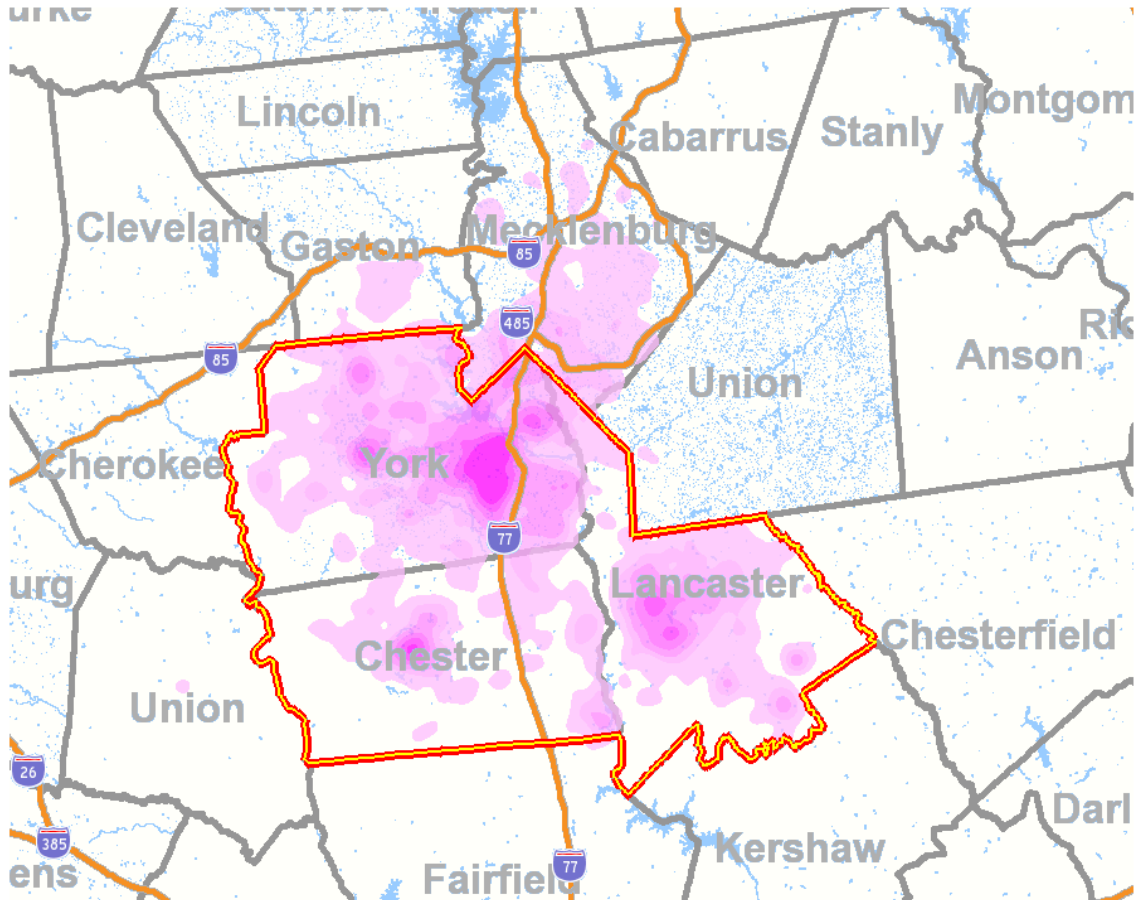
The Catawba area's 2007 population was 314,751. The area population has grown by 28.5% since 1997, compared to 14.2% for South Carolina. Future population growth is expected to continue to exceed state levels.



Source: U.S. Census Bureau (estimates) and SC Budget & Control Board/Office of Research and Statistics (projections).

LABORSHED

The map below shows where Catawba area workers come from (in 2006, latest available data). The Catawba area draws over 70% of its workers from within its borders, with almost half residing in York County.



Source: U.S. Census Bureau, Local Employment Dynamics.

Characteristics of Workers

Age of Workers:

30 or younger	25.1%
31 to 54	58.0%
55 or older	16.9%

Earnings of Workers:

\$1,200 per month or less	26.2%
\$1,201 to \$3,400 per month	44.7%
More than \$3,400 per month	29.2%

States Where Workers Live:

South Carolina	86.7%
North Carolina	12.9%
All other locations	0.4%

Counties Where Workers Live:

York, South Carolina	46.6%
Lancaster, South Carolina	15.1%
Chester, South Carolina	9.6%
Mecklenburg, North Carolina	8.4%
Gaston, North Carolina	1.8%
Richland, South Carolina	1.7%
Spartanburg, South Carolina	1.7%
Greenville, South Carolina	1.5%
Union, North Carolina	1.1%
Lexington, South Carolina	1.1%
All Other Locations	11.4%

Cities Where Workers Live:

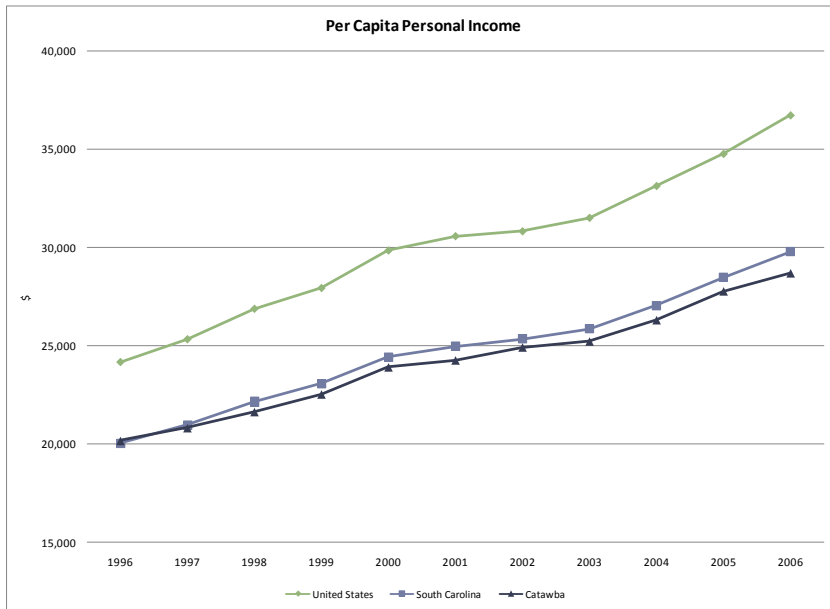
Rock Hill, South Carolina	15.2%
Charlotte, North Carolina	6.9%
Fort Mill, South Carolina	2.0%
Lancaster, South Carolina	1.9%
York, South Carolina	1.8%
Chester, South Carolina	1.7%
Newport, South Carolina	1.7%
Clover, South Carolina	0.9%
Tega Cay, South Carolina	0.9%
Elgin, South Carolina	0.8%
All Other Locations	66.2%

Source: U.S. Census Bureau, Local Employment Dynamics.

INCOME

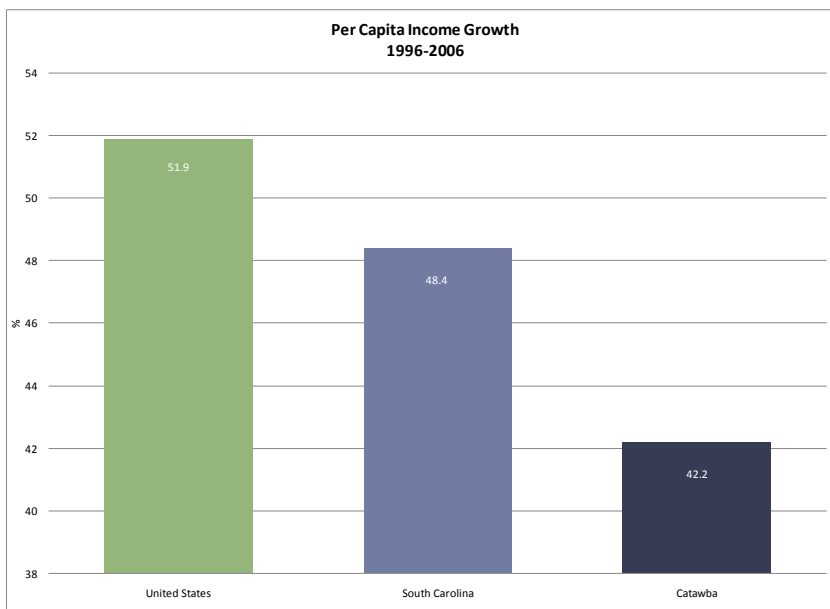
Per Capita Income

The Catawba area's per capita income increased steadily from 1996 to 2006 but fell below the state average.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

As reflected above, the Catawba area's per capita income growth was below both South Carolina's and the United States'.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Wages by Industry

The Catawba area's average wages are below those of South Carolina (\$670 vs. \$680 in 2007). Average wages were up 17% in the Catawba area over the past five years, compared to 18% for the state. All major sectors except real estate and rental and leasing and other services had growth over the past five years, led by finance and insurance.

Industry	NAICS Code	2007 Average Weekly Wage (\$)	2002 Average Weekly Wage (\$)	% Change
Total, Private and Government		670	574	17
Construction	23	699	540	29
Manufacturing	31-33	903	727	24
Retail Trade	44-45	439	385	14
Transportation and Warehousing	48-49	NA	NA	NA
Information	51	918	745	23
Finance and Insurance	52	867	666	30
Real Estate and Rental and Leasing	53	642	1,241	-48
Administration & Support & Waste Management & Remediation Services	56	546	432	26
Arts, Entertainment, and Recreation	71	242	232	4
Accommodation and Food Services	72	233	207	12
Other Services (Except Public Administration)	81	450	475	-5
Federal Government		918	732	25
State Government		690	611	13
Local Government		649	535	21

Source: U.S. Department of Labor, Bureau of Labor Statistics, Quarterly Census of Employment and Wages.

Wages by Occupation

Average wages in the Catawba area are higher than South Carolina's in the following major occupational groups:

- Protective service
- Sales and related
- Farming and forestry
- Installation, maintenance and repair

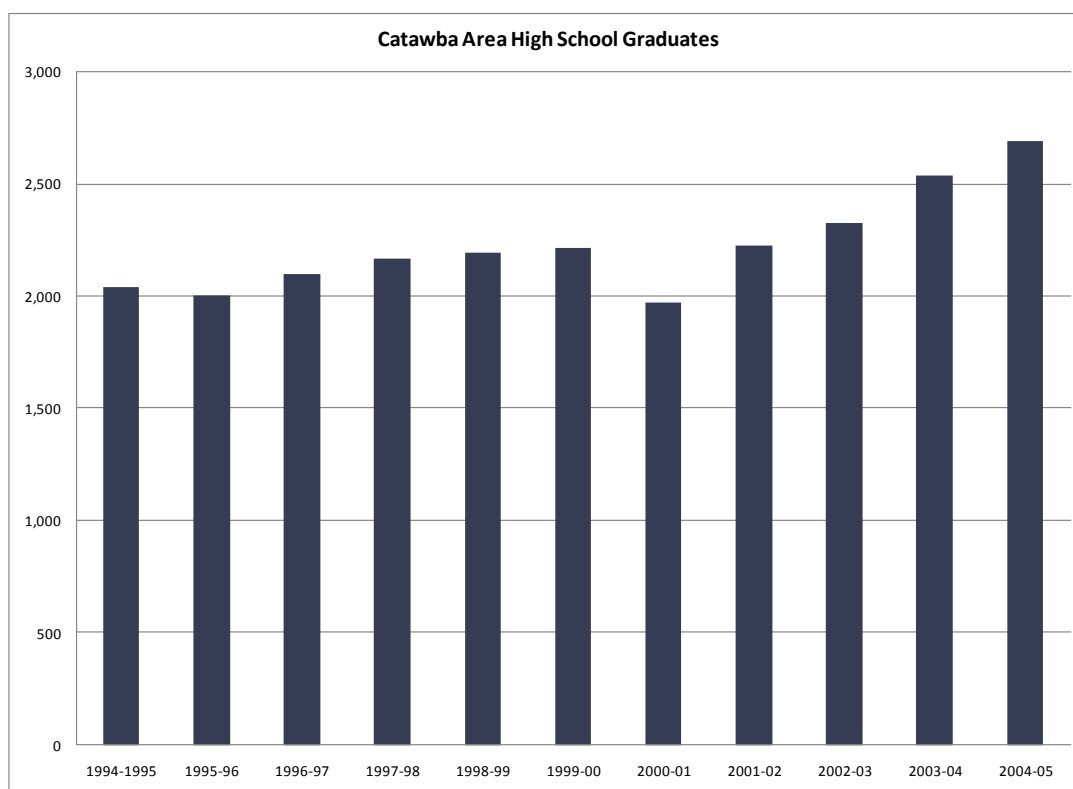
Occupation	2007 Catawba Area Median Hourly Wage (\$)	2007 SC Median Hourly Wage (\$)
Management occupations	25.76	28.78
Business and financial operations occupations	17.53	20.28
Computer and mathematical science occupations	21.24	26.20
Architecture and engineering occupations	26.25	30.22
Life, physical and social science occupations	18.95	22.76
Community and social services occupations	11.93	13.18
Legal occupations	24.65	30.68
Education, training and library occupations	17.40	24.42
Arts, design, entertainment, sports and media occupations	10.73	12.66
Healthcare practitioners and technical occupations	30.12	30.64
Healthcare support occupations	10.48	10.55
Protective service occupations	14.06	13.87
Food preparation and serving related occupations	6.99	7.90
Building and grounds cleaning and maintenance occupations	7.51	8.42
Personal care and service occupations	7.24	8.39
Sales and related occupations	13.71	13.48
Office and administrative support occupations	11.68	13.22
Farming, fishing, and forestry occupations	13.25	13.07
Construction and extraction occupations	15.40	16.51
Installation, maintenance and repair occupations	17.57	16.88
Production occupations	15.00	15.21
Transportation and material moving occupations	11.87	12.94

Source: Economic Modeling Specialists, Inc.

EDUCATION

High School Graduates

From 1995 to 2005 (latest data available), the number of Catawba area students receiving high school diplomas increased by 651—or 32%. In South Carolina, the number of high school diplomas increased 9% from 1995 to 2005. A total of 2,692 people received high school diplomas in the Catawba area in 2005. The Catawba area had 577 more 12th grade students in 2004-05 than in 1994-95. Also, the number of students not passing the exit exam who received a certificate of completion instead of a diploma increased by 91 (to 154) over the 1995-2005 period.



Source: National Center for Education Statistics.

Higher Education Graduates

Over 4,000 more students graduated from higher educational institutions in the Catawba area in 2006 than in 1996, an increase of 52%. The greatest numerical increase was in the business and related field.

Program	1996	2006	Change	% Change
Agriculture, agriculture operations & related sciences	11	16	5	45
Architecture and related services	73	81	8	11
Area, ethnic, cultural & gender studies	3	43	40	1,333
Biological & biomedical sciences	242	283	41	17
Business, management, marketing & related support services	1,734	2,608	874	50
Communication, journalism & related programs	103	395	292	283
Communications technologies/technicians & support services	4	13	9	225
Computer & information sciences & support services	159	373	214	135
Construction trades	25	29	4	16
Education	806	1,237	431	53
Engineering technologies/technicians	237	217	-20	-8
Engineering	239	293	54	23
English language & literature/letters	301	311	10	3
Family & consumer sciences/human sciences	35	105	70	200
Foreign languages, literatures & linguistics	82	130	48	59
Health professions & related clinical sciences	778	1,301	523	67
Legal professions & studies	65	103	38	58
Liberal arts & sciences, general studies & humanities	567	933	366	65
Mathematics & statistics	81	62	-19	-23
Mechanic & repair technologies/technicians	48	196	148	308
Multi/interdisciplinary studies	32	49	17	53
Parks, recreation, leisure & fitness studies	40	125	85	213
Personal & culinary services	47	486	439	934
Philosophy & religious studies	44	93	49	111
Physical sciences	112	102	-10	-9
Precision production	109	104	-5	-5
Psychology	342	436	94	27
Public administration & social service professions	191	161	-30	-16
Security & protective services	339	290	-49	-14
Social sciences & history	766	833	67	9
Theology & religious vocations	13	33	20	154
Visual & performing arts	240	484	244	102
TOTAL	7,868	11,925	4,057	52

Source: National Center for Education Statistics (Integrated Post Secondary Education System).

Data for these schools: Belmont Abbey College (NC), Brookstone College (NC), Central Piedmont Community College (NC), Davidson College (NC), DeVry University-North Carolina, Gardner-Webb University (NC), Gaston College (NC), ITT Technical Institute-Charlotte, Johnson & Wales University-Charlotte, Johnson C Smith University (NC), Mercy School of Nursing (NC), Northeastern Technical College, Queens University of Charlotte, The Art Institute of Charlotte, University of North Carolina at Charlotte, University of Phoenix-Charlotte Campus, University of South Carolina-Lancaster, University of South Carolina-Union, Wingate University (NC) and Winthrop University.

OCCUPATIONS

Occupational Projections

Almost all occupational groups are projected to grow faster in the Catawba area than in the state.

See **Appendix A** for detailed occupational information.

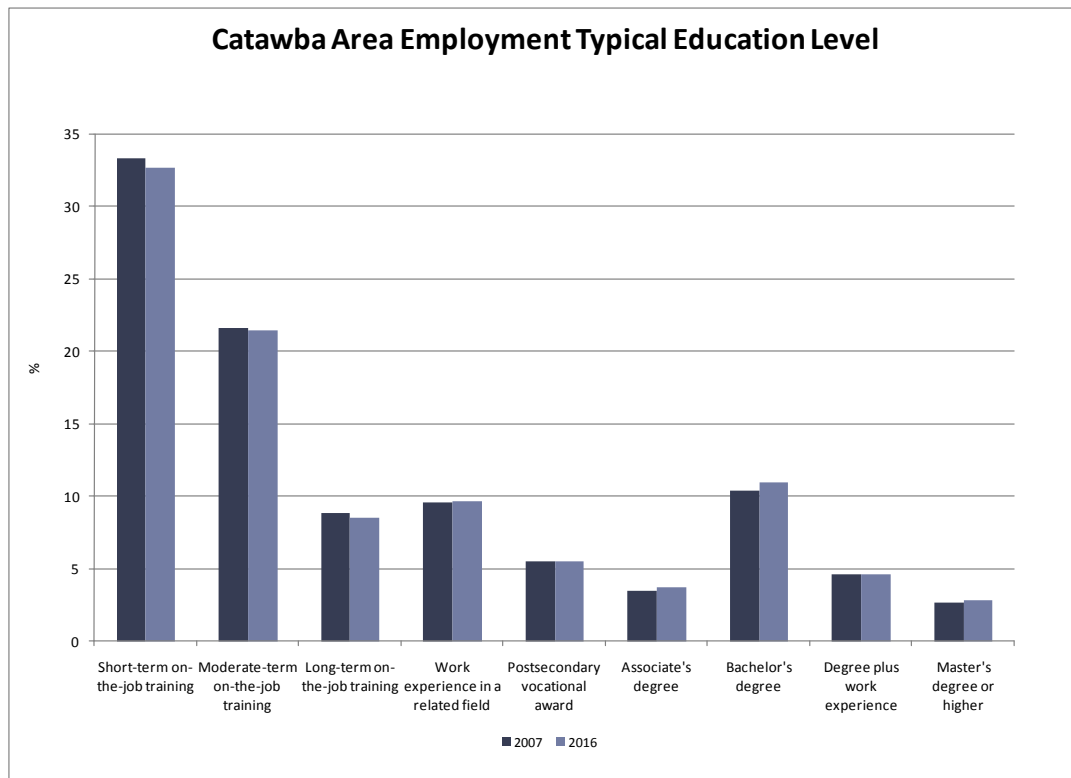
Occupation	2007-2016 Catawba Area Projected Growth (%)	2007-2016 SC Projected Growth (%)
Management occupations	20	17
Business and financial operations occupations	30	22
Computer and mathematical science occupations	27	23
Architecture and engineering occupations	22	15
Life, physical and social science occupations	32	15
Community and social services occupations	21	15
Legal occupations	22	21
Education, training, and library occupations	22	16
Arts, design, entertainment, sports and media occupations	25	17
Healthcare practitioners and technical occupations	30	24
Healthcare support occupations	30	25
Protective service occupations	27	18
Food preparation and serving related occupations	19	13
Building and grounds cleaning and maintenance occupations	27	23
Personal care and service occupations	13	7
Sales and related occupations	22	19
Office and administrative support occupations	22	13
Farming, fishing, and forestry occupations	25	16
Construction and extraction occupations	19	19
Installation, maintenance and repair occupations	22	17
Production occupations	13	10
Transportation and material moving occupations	19	11

Source: Economic Modeling Specialists, Inc.

Occupational Education Requirements

Occupational growth trends show that education and training requirements are generally increasing. This is reflected in the projected growth of occupations such as engineers, business professionals and healthcare practitioners in the Catawba area. Based on employment projections, the Catawba area is expected to see growth in requirements for the following levels of education and experience:

- Work experience in a related field
- Associate's degree
- Bachelor's degree
- Master's degree or higher



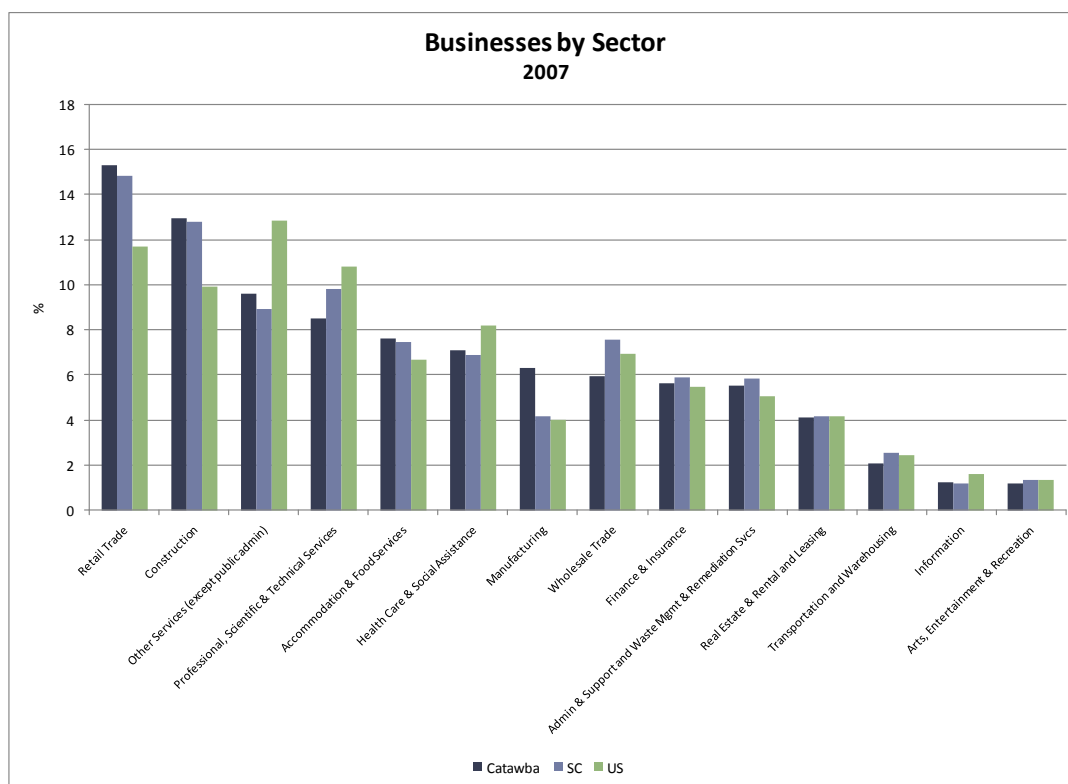
Source: Economic Modeling Specialists, Inc

INDUSTRY

Businesses by Sector

The Catawba area had higher percentages of businesses than South Carolina or the nation in the following sectors:

- Retail trade
- Construction
- Accommodation and food services
- Manufacturing



Source: U.S. Department of Labor, Bureau of Labor Statistics.

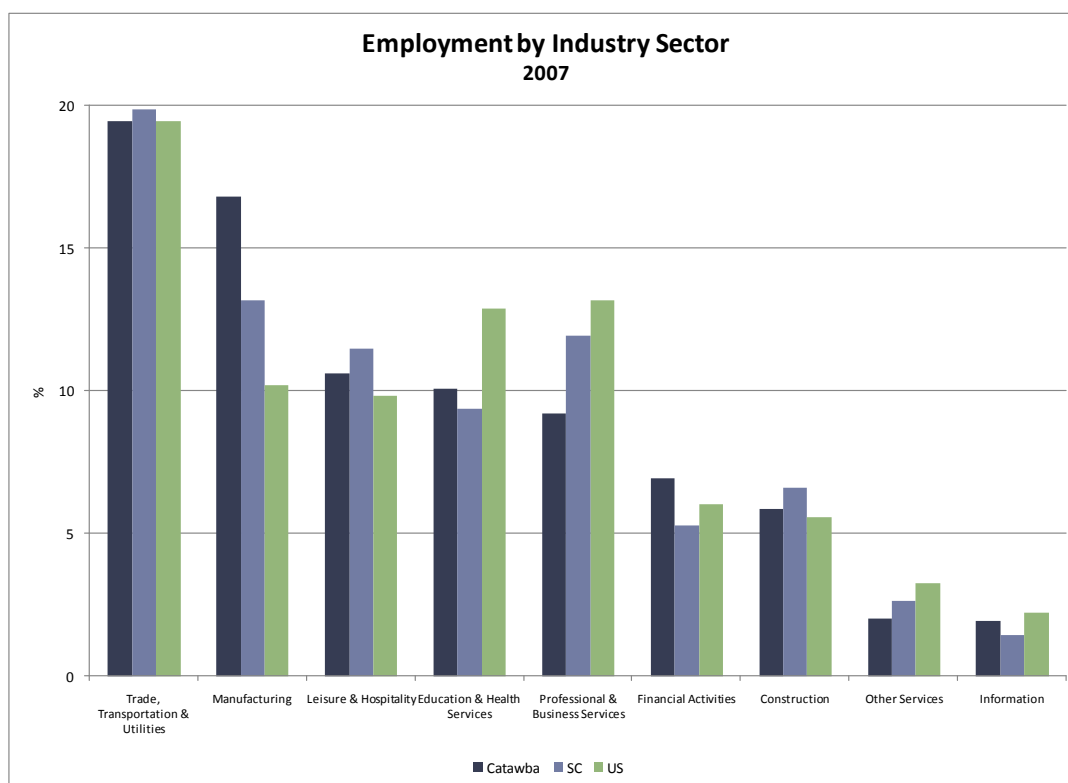
Growth in Number of Businesses

The number of private businesses in the Catawba area fell 1% from 2002 to 2007, compared to a 2% drop for the state.

Because the amount of detailed data varies by county, information for three-digit NAICS code sectors for the Catawba area as a whole is unavailable. Please see county reports for information on growth by detailed industry sectors.

Employment by Sector

Compared to South Carolina and the United States, the Catawba area's employment is much more concentrated in manufacturing. The area also has a higher concentration of employment in financial activities.



Source: U.S. Department of Labor, Bureau of Labor Statistics.

Industry Analysis

Screening Criteria

For each county in the Catawba area, industry sectors with available data were rated on six factors:

- | | |
|------------------------------------|---------------------------------|
| • 2002-2007 employment growth | Competitive effect ¹ |
| • 2002-2007 employment growth rate | Average annual wage |
| • Location quotient ² | Projected growth |

Using those factors, sectors were awarded “stars” based on meeting the following criteria:

- 2002-2007 employment growth (Did the sector add a significant number of jobs?)
- 2002-2007 employment growth rate (Did the sector add jobs at a greater rate than overall job growth?)
- Location quotient of at least 1.25 (Does the sector have a significant concentration in the county?)
- Competitive effect greater than 0 (Did the sector add jobs beyond national growth overall and in the sector?)
- Average annual wage greater than the overall county average (Does the sector pay wages greater than average for the county?)
- Average or above average projected growth (Is the sector expected to add jobs?)

Industries of Note

Based on the analyses for each county in the Catawba area, the following sectors of note were identified (and the counties for which they were significant):

- Heavy and civil engineering construction (Chester)
- Construction of buildings (Lancaster)
- Wood product manufacturing (York)
- Paper manufacturing (York)
- Chemical manufacturing (York)
- Nonmetallic mineral products manufacturing (Chester, Lancaster)
- Fabricated metal product manufacturing (Lancaster, York)
- Electrical equipment, appliance and component manufacturing (York)
- Transportation equipment manufacturing (York)
- Miscellaneous manufacturing (Lancaster)

¹ *Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in the county after accounting for overall US employment growth and growth/decline in the sector in the US.*

² *Location Quotient: percentage of employment in the sector in the county divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in the county compared to the US; based on 2007 data.*

- Merchant wholesalers, durable goods (Lancaster)
- Merchant wholesalers, nondurable goods (Chester, York)
- Warehousing and storage (York)
- Telecommunications (York)
- Ambulatory health care services (York)

See the reports for each county for information about the respective industries of note as well as other sectors in the county.

MOVING FORWARD

The South Carolina Department of Commerce appreciates the opportunity to provide this base analysis of the Catawba area's labor market. We hope that it will help in advancing the progress of the Catawba area's economic development.

What's been done so far?

This analysis identifies the region's assets—both current and future—at a macro level. Labor Market Information (LMI) at the S.C. Department of Commerce developed a Base Labor Analysis report providing an overview of the region's population, industries, occupations, and educational assets. Additionally, these findings were benchmarked against the state and the nation.

What's next?

Because local knowledge is required to interpret and apply the findings appropriately, the Catawba Base Labor Analysis should be used with local stakeholders to identify and define key, targeted industry clusters. Some items to consider when defining these clusters may include the following.

1. *What is the Catawba area's economic base?*

In order for an economy to grow, it must have a base (export) sector that generates wealth from beyond its borders. Industries in the economic base (manufacturing, scientific and technology services, warehouse and distribution, financial services, regional healthcare, etc.) typically provide occupations with higher pay and benefits as well as better human capital development and promotion opportunities. A successful economic base stimulates the development of the non-base sector (housing, schools, retail, restaurants, personal services, etc.). It also propels the local tax base which, in turn, provides support to community services.

2. *What are strategies to assist low-wage citizens in non-base economy jobs?*

Although the economic base is the driver for long-term growth in a region, implementable strategies for developing job opportunities for low-skilled individuals is a priority for community economic well-being. This need must also be kept in mind when defining target industry clusters.

3. *What other factors are vital to the Catawba area and its communities?*

Over and above pure economic considerations, what is important to the citizens of the Catawba area? How does Catawba want to be perceived? What quality of life issues affect Catawba? These questions may impact the types of industries desired for the area.

How Labor Market Information at the S.C. Department of Commerce can help.

Once local stakeholders have identified key industry clusters vital to the future economic development of the region, LMI can provide more in-depth analysis of each of these industries, their occupations, business establishments, and educational requirements.

1. Detailed Industry Analysis

For each identified industry, LMI can develop a detailed analysis of each sector, including employment, projected growth, staffing patterns, location quotients, and employers. Additionally, the analysis will examine the largest, fastest growing, and declining sectors within the industry cluster.

2. Detailed Occupational Analysis

At this point, the occupations—classified by SOC codes—that make up each of the identified industry clusters can be analyzed in detail. This analysis will include employment, average earnings, educational requirements, projected growth, and completers from available local training programs. It will culminate in identifying gaps between the number of occupations required to sustain and advance industry growth and the number of skilled workers (as identified by educational requirements and program completers) available to fulfill these positions.

3. Identification of Implementable Recommendations

LMI will utilize the findings of the analyses to develop a set of implementable recommendations. These may include recommendations to align community college programs with economic development goals along with others. Finally, local knowledge will once again be called upon to review the findings and develop an action plan for the implementation of feasible solutions.

Appendix A: Occupational Projections for Catawba Area

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-2011	Advertising and promotions managers	34	45	11	32	0.80	17.65	Degree plus work experience
11-2021	Marketing managers	135	176	41	30	0.85	24.31	Degree plus work experience
11-2022	Sales managers	370	461	91	25	1.36	28.48	Degree plus work experience
11-2031	Public relations managers	41	55	14	34	1.01	19.04	Degree plus work experience
11-3011	Administrative services managers	135	167	32	24	0.72	22.44	Degree plus work experience
11-3021	Computer and information systems managers	184	229	45	24	0.86	31.77	Degree plus work experience
11-3031	Financial managers	598	809	211	35	1.17	30.35	Degree plus work experience
11-3041	Compensation and benefits managers	45	58	13	29	1.12	24.65	Degree plus work experience
11-3042	Training and development managers	22	30	8	36	0.89	24.63	Degree plus work experience
11-3049	Human resources managers, all other	36	46	10	28	0.77	27.80	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-3051	Industrial production managers	186	221	35	19	1.55	33.96	Work experience in a related field
11-3061	Purchasing managers	67	81	14	21	1.28	28.97	Degree plus work experience
11-3071	Transportation, storage, and distribution managers	78	105	27	35	1.00	29.82	Work experience in a related field
11-9011	Farm, ranch, and other agricultural managers	323	324	1	0	1.22	5.88	Degree plus work experience
11-9012	Farmers and ranchers	1,610	1,618	8	0	1.24	5.85	Long-term on-the-job training
11-9021	Construction managers	667	813	146	22	1.18	20.03	Bachelor's degree
11-9031	Education administrators, preschool and child care center/program	75	91	16	21	0.74	9.24	Degree plus work experience
11-9032	Education administrators, elementary and secondary school	183	214	31	17	0.80	35.52	Degree plus work experience
11-9033	Education administrators, postsecondary	95	115	20	21	0.67	19.75	Degree plus work experience
11-9039	Education administrators, all other	26	33	7	27	0.35	11.32	Degree plus work experience
11-9041	Engineering managers	151	177	26	17	1.04	37.63	Degree plus work experience
11-9051	Food service managers	368	496	128	35	1.08	15.73	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-9061	Funeral directors	30	29	-1	-3	1.41	20.61	Associate's degree
11-9081	Lodging managers	67	65	-2	-3	0.61	22.36	Work experience in a related field
11-9111	Medical and health services managers	197	249	52	26	0.85	32.49	Degree plus work experience
11-9121	Natural sciences managers	10	17	7	70	0.34	31.99	Degree plus work experience
11-9131	Postmasters and mail superintendents	11	12	1	9	0.62	26.97	Work experience in a related field
11-9141	Property, real estate, and community association managers	641	927	286	45	0.73	10.98	Bachelor's degree
11-9151	Social and community service managers	61	73	12	20	0.53	14.20	Bachelor's degree
11-9199	Managers, all other	1,075	1,346	271	25	0.89	49.19	Work experience in a related field
11-1011	Chief executives	707	877	170	24	0.83	42.45	Degree plus work experience
11-1021	General and operations managers	1,672	1,902	230	14	1.19	33.10	Degree plus work experience
11-1031	Legislators	68	74	6	9	1.42	8.62	Degree plus work experience
13-1011	Agents and business managers of artists, performers, and athletes	16	21	5	31	0.52	6.47	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
13-1022	Wholesale and retail buyers, except farm products	105	117	12	11	0.81	20.38	Work experience in a related field
13-1023	Purchasing agents, except wholesale, retail, and farm products	196	233	37	19	0.88	19.14	Work experience in a related field
13-1031	Claims adjusters, examiners, and investigators	113	144	31	27	0.48	21.34	Long-term on-the-job training
13-1032	Insurance appraisers, auto damage	18	23	5	28	0.83	15.35	Long-term on-the-job training
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	115	142	27	23	0.65	14.55	Long-term on-the-job training
13-1051	Cost estimators	153	191	38	25	0.83	20.61	Work experience in a related field
13-1071	Employment, recruitment, and placement specialists	137	170	33	24	0.88	14.16	Bachelor's degree
13-1072	Compensation, benefits, and job analysis specialists	83	111	28	34	0.92	18.00	Bachelor's degree
13-1073	Training and development specialists	174	230	56	32	1.05	17.61	Bachelor's degree
13-1079	Human resources, training, and labor relations specialists, all other	80	108	28	35	0.46	18.46	Bachelor's degree
13-1081	Logisticians	22	31	9	41	0.36	20.01	Bachelor's degree
13-1111	Management analysts	459	573	114	25	0.60	18.84	Degree plus work experience
13-1121	Meeting and convention planners	57	73	16	28	0.86	9.73	Bachelor's degree
13-1199	Business operation specialists, all other	457	620	163	36	0.57	17.77	Bachelor's degree
13-2011	Accountants and auditors	915	1,143	228	25	0.77	17.76	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
13-2021	Appraisers and assessors of real estate	260	369	109	42	0.81	13.22	Postsecondary vocational award
13-2031	Budget analysts	22	27	5	23	0.48	20.08	Bachelor's degree
13-2041	Credit analysts	162	212	50	31	3.13	14.24	Bachelor's degree
13-2051	Financial analysts	223	318	95	43	0.86	17.02	Bachelor's degree
13-2052	Personal financial advisors	266	402	136	51	0.49	18.06	Bachelor's degree
13-2053	Insurance underwriters	118	155	37	31	1.42	18.66	Bachelor's degree
13-2061	Financial examiners	27	39	12	44	1.41	18.31	Bachelor's degree
13-2071	Loan counselors	55	70	15	27	1.37	50.85	Bachelor's degree
13-2072	Loan officers	735	990	255	35	2.49	16.71	Bachelor's degree
13-2081	Tax examiners, collectors, and revenue agents	40	46	6	15	0.70	17.39	Bachelor's degree
13-2082	Tax preparers	65	66	1	2	0.73	12.02	Moderate-term on-the-job training
13-2099	Financial specialists, all other	127	158	31	24	1.11	12.42	Bachelor's degree
15-1011	Computer and information scientists, research	21	23	2	10	0.42	19.83	Doctoral degree
15-1021	Computer programmers	262	263	1	0	0.71	24.35	Bachelor's degree
15-1031	Computer software engineers, applications	150	202	52	35	0.37	26.93	Bachelor's degree
15-1032	Computer software engineers, systems software	125	157	32	26	0.43	28.14	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
15-1041	Computer support specialists	369	448	79	21	0.85	12.93	Associate's degree
15-1051	Computer systems analysts	297	397	100	34	0.77	21.81	Bachelor's degree
15-1061	Database administrators	81	114	33	41	0.87	21.39	Bachelor's degree
15-1071	Network and computer systems administrators	160	213	53	33	0.66	22.04	Bachelor's degree
15-1081	Network systems and data communications analysts	186	282	96	52	0.86	23.15	Bachelor's degree
15-1099	Computer specialists, all other	48	58	10	21	0.28	18.54	Associate's degree
15-2031	Operations research analysts	35	43	8	23	0.75	20.52	Master's degree
17-1011	Architects, except landscape and naval	110	124	14	13	0.96	26.82	Bachelor's degree
17-1012	Landscape architects	51	61	10	20	0.98	23.95	Bachelor's degree
17-1021	Cartographers and photogrammetrists	10	13	3	30	0.84	23.18	Bachelor's degree
17-1022	Surveyors	31	37	6	19	0.66	20.41	Bachelor's degree
17-2031	Biomedical engineers	24	52	28	117	1.50	22.38	Bachelor's degree
17-2041	Chemical engineers	29	35	6	21	1.26	44.53	Bachelor's degree
17-2051	Civil engineers	167	194	27	16	0.76	26.75	Bachelor's degree
17-2061	Computer hardware engineers	10	11	1	10	—	—	Bachelor's degree
17-2071	Electrical engineers	104	119	15	14	0.87	37.65	Bachelor's degree
17-2072	Electronics engineers, except computer	45	57	12	27	0.42	31.08	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
17-2081	Environmental engineers	20	24	4	20	0.48	28.30	Bachelor's degree
17-2111	Health and safety engineers, except mining safety engineers and inspectors	28	34	6	21	1.39	26.73	Bachelor's degree
17-2112	Industrial engineers	290	413	123	42	1.87	26.73	Bachelor's degree
17-2131	Materials engineers	11	14	3	27	0.68	30.19	Bachelor's degree
17-2141	Mechanical engineers	140	159	19	14	0.81	31.58	Bachelor's degree
17-2161	Nuclear engineers	57	67	10	18	2.71	55.97	Bachelor's degree
17-2199	Engineers, all other	54	65	11	20	0.42	28.40	Bachelor's degree
17-3011	Architectural and civil drafters	57	58	1	2	0.63	19.99	Postsecondary vocational award
17-3012	Electrical and electronics drafters	57	63	6	11	1.91	24.81	Postsecondary vocational award
17-3013	Mechanical drafters	61	72	11	18	1.00	20.67	Postsecondary vocational award
17-3019	Drafters, all other	11	13	2	18	0.49	21.60	Postsecondary vocational award
17-3022	Civil engineering technicians	77	85	8	10	1.14	15.23	Associate's degree
17-3023	Electrical and electronic engineering technicians	193	226	33	17	1.46	20.52	Associate's degree
17-3024	Electro-mechanical technicians	19	21	2	11	1.53	25.38	Associate's degree
17-3026	Industrial engineering technicians	60	77	17	28	1.06	17.65	Associate's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
17-3027	Mechanical engineering technicians	33	37	4	12	0.90	20.62	Associate's degree
17-3029	Engineering technicians, except drafters, all other	10	13	3	30	0.17	27.35	Associate's degree
17-3031	Surveying and mapping technicians	88	99	11	13	1.37	16.76	Moderate-term on-the-job training
19-1022	Microbiologists	14	29	15	107	1.11	20.30	Doctoral degree
19-1042	Medical scientists, except epidemiologists	18	31	13	72	0.27	25.84	Doctoral degree
19-2031	Chemists	104	165	61	59	1.62	20.13	Bachelor's degree
19-2041	Environmental scientists and specialists, including health	43	51	8	19	0.59	17.10	Master's degree
19-2042	Geoscientists, except hydrologists and geographers	13	15	2	15	0.39	18.68	Master's degree
19-3021	Market research analysts	112	145	33	29	0.55	17.08	Bachelor's degree
19-3022	Survey researchers	25	29	4	16	0.48	14.05	Bachelor's degree
19-3031	Clinical, counseling, and school psychologists	74	88	14	19	0.55	21.06	Doctoral degree
19-3032	Industrial-organizational psychologists	22	24	2	9	0.38	17.35	Master's degree
19-3039	Psychologists, all other	23	26	3	13	0.36	18.14	Master's degree
19-3051	Urban and regional planners	29	36	7	24	1.12	21.61	Master's degree
19-4011	Agricultural and food science technicians	13	15	2	15	0.71	9.23	Associate's degree
19-4031	Chemical technicians	97	129	32	33	2.08	15.94	Associate's degree
19-4051	Nuclear technicians	28	34	6	21	4.98	37.86	Associate's degree
19-4091	Environmental science and protection technicians, including health	14	17	3	21	0.50	14.39	Associate's degree
19-4093	Forest and conservation technicians	10	11	1	10	--	--	Associate's degree
19-4099	Life, physical, and social science technicians, all other	17	21	4	24	0.35	11.27	Associate's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
21-1011	Substance abuse and behavioral disorder counselors	67	96	29	43	0.92	12.31	Master's degree
21-1012	Educational, vocational, and school counselors	126	151	25	20	0.64	17.88	Master's degree
21-1013	Marriage and family therapists	10	12	2	20	0.36	11.68	Master's degree
21-1014	Mental health counselors	36	49	13	36	0.42	12.07	Master's degree
21-1015	Rehabilitation counselors	80	96	16	20	0.71	11.84	Master's degree
21-1019	Counselors, all other	11	13	2	18	0.36	10.32	Master's degree
21-1021	Child, family, and school social workers	315	366	51	16	1.38	15.33	Bachelor's degree
21-1022	Medical and public health social workers	105	130	25	24	1.05	16.08	Bachelor's degree
21-1023	Mental health and substance abuse social workers	109	155	46	42	1.06	14.44	Master's degree
21-1029	Social workers, all other	33	39	6	18	0.57	16.54	Bachelor's degree
21-1091	Health educators	28	35	7	25	0.57	17.68	Master's degree
21-1092	Probation officers and correctional treatment specialists	62	74	12	19	0.89	14.90	Bachelor's degree
21-1093	Social and human service assistants	212	270	58	27	0.78	10.09	Moderate-term on-the-job training
21-1099	Community and social service specialists, all other	40	49	9	23	0.42	14.18	Bachelor's degree
21-2011	Clergy	312	352	40	13	1.66	6.29	Master's degree
21-2021	Directors, religious activities and education	118	134	16	14	1.66	6.42	Bachelor's degree
21-2099	Religious workers, all other	52	58	6	12	1.66	5.88	Bachelor's degree
23-1011	Lawyers	342	414	72	21	0.52	31.09	First professional degree
23-1023	Judges, magistrate judges, and magistrates	38	43	5	13	1.96	22.49	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
23-2011	Paralegals and legal assistants	134	167	33	25	0.71	13.23	Associate's degree
23-2091	Court reporters	20	26	6	30	0.79	19.46	Postsecondary vocational award
23-2092	Law clerks	16	21	5	31	0.43	17.32	Bachelor's degree
23-2093	Title examiners, abstractors, and searchers	29	35	6	21	0.46	17.21	Moderate-term on-the-job training
23-2099	Legal support workers, all other	19	25	6	32	0.44	16.98	Bachelor's degree
25-1099	Postsecondary teachers	774	997	223	29	0.65	28.73	Doctoral degree
25-2011	Preschool teachers, except special education	711	866	155	22	1.82	6.32	Postsecondary vocational award
25-2012	Kindergarten teachers, except special education	115	142	27	23	0.80	19.63	Bachelor's degree
25-2021	Elementary school teachers, except special education	1,000	1,213	213	21	0.79	22.40	Bachelor's degree
25-2022	Middle school teachers, except special and vocational education	592	705	113	19	1.08	22.48	Bachelor's degree
25-2023	Vocational education teachers, middle school	30	32	2	7	0.90	19.76	Degree plus work experience
25-2031	Secondary school teachers, except special and vocational education	534	611	77	14	0.64	23.86	Bachelor's degree
25-2032	Vocational education teachers, secondary school	87	90	3	3	1.04	25.06	Degree plus work experience
25-2041	Special education teachers, preschool, kindergarten, and elementary school	166	212	46	28	0.94	21.84	Bachelor's degree
25-2042	Special education teachers, middle school	74	91	17	23	0.90	22.06	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
25-2043	Special education teachers, secondary school	56	65	9	16	0.51	23.47	Bachelor's degree
25-3011	Adult literacy, remedial education, and GED teachers and instructors	128	182	54	42	1.13	9.30	Bachelor's degree
25-3021	Self-enrichment education teachers	237	317	80	34	1.16	8.11	Work experience in a related field
25-3099	Teachers and instructors, all other	531	664	133	25	1.02	9.90	Bachelor's degree
25-4021	Librarians	110	125	15	14	0.89	20.17	Master's degree
25-4031	Library technicians	115	138	23	20	1.24	9.94	Postsecondary vocational award
25-9021	Farm and home management advisors	15	17	2	13	0.71	16.16	Bachelor's degree
25-9031	Instructional coordinators	77	100	23	30	0.72	19.98	Master's degree
25-9041	Teacher assistants	896	1,045	149	17	0.83	9.36	Short-term on-the-job training
25-9099	Education, training, and library workers, all other	58	68	10	17	0.72	17.69	Bachelor's degree
27-1011	Art directors	61	81	20	33	0.62	10.17	Degree plus work experience
27-1012	Craft artists	47	61	14	30	0.63	8.33	Long-term on-the-job training
27-1013	Fine artists, including painters, sculptors, and illustrators	54	70	16	30	0.67	8.95	Long-term on-the-job training
27-1014	Multi-media artists and animators	54	72	18	33	0.58	9.24	Bachelor's degree
27-1019	Artists and related workers, all other	49	64	15	31	0.64	8.26	Long-term on-the-job training
27-1021	Commercial and industrial designers	47	59	12	26	0.84	15.29	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
27-1022	Fashion designers	29	37	8	28	0.69	19.77	Associate's degree
27-1023	Floral designers	67	69	2	3	0.87	12.34	Moderate-term on-the-job training
27-1024	Graphic designers	106	142	36	34	0.56	14.31	Bachelor's degree
27-1025	Interior designers	54	75	21	39	0.76	15.41	Associate's degree
27-1026	Merchandise displayers and window trimmers	69	92	23	33	0.87	11.99	Moderate-term on-the-job training
27-1027	Set and exhibit designers	26	33	7	27	0.70	17.65	Bachelor's degree
27-1029	Designers, all other	27	35	8	30	0.69	17.36	Bachelor's degree
27-2011	Actors	32	40	8	25	0.41	6.20	Long-term on-the-job training
27-2012	Producers and directors	40	52	12	30	0.43	10.90	Degree plus work experience
27-2021	Athletes and sports competitors	32	47	15	47	1.03	7.52	Long-term on-the-job training
27-2022	Coaches and scouts	128	166	38	30	0.87	8.57	Long-term on-the-job training
27-2023	Umpires, referees, and other sports officials	23	32	9	39	0.72	6.51	Long-term on-the-job training
27-2041	Music directors and composers	99	123	24	24	0.80	5.90	Degree plus work experience
27-2042	Musicians and singers	148	177	29	20	0.86	6.00	Long-term on-the-job training
27-2099	Entertainers and performers, sports and related workers, all other	45	51	6	13	0.46	5.89	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
27-3011	Radio and television announcers	32	44	12	38	0.76	7.63	Long-term on-the-job training
27-3012	Public address system and other announcers	11	14	3	27	0.64	8.78	Long-term on-the-job training
27-3022	Reporters and correspondents	53	73	20	38	1.08	13.85	Degree plus work experience
27-3031	Public relations specialists	139	187	48	35	0.69	13.30	Bachelor's degree
27-3041	Editors	70	87	17	24	0.61	17.43	Bachelor's degree
27-3042	Technical writers	16	20	4	25	0.35	15.48	Bachelor's degree
27-3043	Writers and authors	171	226	55	32	0.58	6.86	Bachelor's degree
27-3091	Interpreters and translators	81	95	14	17	0.75	13.25	Long-term on-the-job training
27-3099	Media and communication workers, all other	67	77	10	15	0.65	14.45	Long-term on-the-job training
27-4011	Audio and video equipment technicians	16	21	5	31	0.42	9.04	Long-term on-the-job training
27-4012	Broadcast technicians	12	14	2	17	0.39	9.25	Associate's degree
27-4021	Photographers	379	421	42	11	0.67	11.04	Long-term on-the-job training
29-1011	Chiropractors	39	50	11	28	0.88	29.13	First professional degree
29-1021	Dentists, general	63	74	11	17	0.84	65.66	First professional degree
29-1022	Oral and maxillofacial surgeons	13	18	5	38	1.05	68.79	First professional degree

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29-1023	Orthodontists	14	20	6	43	1.17	61.06	First professional degree
29-1029	Dentists, all other specialists	11	16	5	45	0.94	59.15	First professional degree
29-1031	Dietitians and nutritionists	45	52	7	16	0.84	20.21	Bachelor's degree
29-1041	Optometrists	28	41	13	46	0.79	35.76	First professional degree
29-1051	Pharmacists	158	214	56	35	0.84	50.63	First professional degree
29-1069	Physicians and surgeons	516	653	137	27	0.82	107.53	First professional degree
29-1071	Physician assistants	38	53	15	39	0.75	37.46	Bachelor's degree
29-1081	Podiatrists	12	13	1	8	0.41	26.49	First professional degree
29-1111	Registered nurses	2,435	3,272	837	34	1.29	23.16	Associate's degree
29-1121	Audiologists	11	13	2	18	0.81	23.76	First professional degree
29-1122	Occupational therapists	80	101	21	26	1.01	24.51	Master's degree
29-1123	Physical therapists	105	135	30	29	0.71	28.67	Master's degree
29-1124	Radiation therapists	10	13	3	30	—	—	Associate's degree
29-1125	Recreational therapists	22	24	2	9	1.15	13.36	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-1126	Respiratory therapists	94	124	30	32	1.23	19.92	Associate's degree
29-1127	Speech-language pathologists	73	85	12	16	0.74	21.46	Master's degree
29-1129	Therapists, all other	19	22	3	16	0.44	16.49	Bachelor's degree
29-1131	Veterinarians	55	80	25	45	1.06	38.19	First professional degree
29-1199	Health diagnosing and treating practitioners, all other	34	41	7	21	0.45	24.91	Bachelor's degree
29-2011	Medical and clinical laboratory technologists	105	131	26	25	0.83	20.44	Bachelor's degree
29-2012	Medical and clinical laboratory technicians	111	147	36	32	0.97	15.09	Associate's degree
29-2021	Dental hygienists	153	203	50	33	1.17	24.59	Associate's degree
29-2031	Cardiovascular technologists and technicians	48	67	19	40	1.39	18.51	Associate's degree
29-2032	Diagnostic medical sonographers	39	51	12	31	1.11	27.22	Associate's degree
29-2033	Nuclear medicine technologists	17	22	5	29	1.10	31.76	Associate's degree
29-2034	Radiologic technologists and technicians	156	200	44	28	1.05	20.35	Associate's degree
29-2041	Emergency medical technicians and paramedics	132	178	46	35	0.86	10.05	Postsecondary vocational award
29-2051	Dietetic technicians	13	16	3	23	0.69	13.85	Moderate-term on-the-job training
29-2052	Pharmacy technicians	229	282	53	23	1.04	9.38	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-2053	Psychiatric technicians	59	78	19	32	1.29	15.81	Moderate-term on-the-job training
29-2054	Respiratory therapy technicians	18	21	3	17	1.24	19.39	Associate's degree
29-2055	Surgical technologists	91	126	35	38	1.41	15.03	Postsecondary vocational award
29-2056	Veterinary technologists and technicians	55	81	26	47	1.00	13.42	Associate's degree
29-2061	Licensed practical and licensed vocational nurses	438	513	75	17	0.77	16.97	Postsecondary vocational award
29-2071	Medical records and health information technicians	121	153	32	26	0.94	10.89	Associate's degree
29-2081	Opticians, dispensing	60	65	5	8	0.96	16.07	Long-term on-the-job training
29-2099	Healthcare technologists and technicians, all other	36	45	9	25	0.58	18.85	Postsecondary vocational award
29-9011	Occupational health and safety specialists	39	47	8	21	1.15	22.13	Bachelor's degree
29-9091	Athletic trainers	15	19	4	27	1.14	11.92	Bachelor's degree
29-9099	Healthcare practitioners and technical workers, all other	36	45	9	25	0.89	15.28	Postsecondary vocational award
31-1011	Home health aides	1,003	1,445	442	44	1.54	8.64	Short-term on-the-job training
31-1012	Nursing aides, orderlies, and attendants	938	1,104	166	18	0.83	9.59	Postsecondary vocational award
31-1013	Psychiatric aides	75	94	19	25	0.77	13.18	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
31-2011	Occupational therapist assistants	12	15	3	25	0.67	17.02	Associate's degree
31-2021	Physical therapist assistants	42	55	13	31	0.92	17.74	Associate's degree
31-2022	Physical therapist aides	12	15	3	25	0.35	8.58	Short-term on-the-job training
31-9011	Massage therapists	72	55	-17	-24	0.97	7.03	Postsecondary vocational award
31-9091	Dental assistants	221	290	69	31	1.03	15.92	Moderate-term on-the-job training
31-9092	Medical assistants	275	398	123	45	0.84	12.22	Moderate-term on-the-job training
31-9093	Medical equipment preparers	52	66	14	27	1.26	14.18	Short-term on-the-job training
31-9094	Medical transcriptionists	67	84	17	25	0.90	14.66	Postsecondary vocational award
31-9095	Pharmacy aides	36	40	4	11	0.80	12.61	Short-term on-the-job training
31-9096	Veterinary assistants and laboratory animal caretakers	59	76	17	29	0.94	11.84	Short-term on-the-job training
31-9099	Healthcare support workers, all other	114	145	31	27	0.75	11.00	Short-term on-the-job training
33-1011	First-line supervisors/managers of correctional officers	21	25	4	19	0.72	17.48	Work experience in a related field
33-1012	First-line supervisors/managers of police and detectives	80	98	18	23	1.16	24.00	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
33-1021	First-line supervisors/managers of fire fighting and prevention workers	35	44	9	26	0.91	23.53	Work experience in a related field
33-1099	First-line supervisors/managers, protective service workers, all other	42	55	13	31	1.09	14.33	Work experience in a related field
33-2011	Fire fighters	208	259	51	25	0.95	15.74	Long-term on-the-job training
33-2021	Fire inspectors and investigators	17	21	4	24	1.63	18.63	Work experience in a related field
33-3011	Bailiffs	13	16	3	23	0.97	7.83	Moderate-term on-the-job training
33-3012	Correctional officers and jailers	364	463	99	27	1.13	12.95	Moderate-term on-the-job training
33-3021	Detectives and criminal investigators	54	70	16	30	0.68	18.35	Work experience in a related field
33-3051	Police and sheriff's patrol officers	559	686	127	23	1.13	18.42	Long-term on-the-job training
33-9011	Animal control workers	13	17	4	31	1.15	12.07	Moderate-term on-the-job training
33-9021	Private detectives and investigators	40	53	13	33	0.78	13.11	Work experience in a related field
33-9032	Security guards	565	744	179	32	0.71	9.22	Short-term on-the-job training
33-9091	Crossing guards	15	17	2	13	0.29	10.11	Short-term on-the-job training
33-9092	Lifeguards, ski patrol, and other recreational protective service workers	124	156	32	26	1.36	7.35	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
33-9099	Protective service workers, all other	44	54	10	23	0.69	11.86	Short-term on-the-job training
35-1011	Chefs and head cooks	89	107	18	20	0.90	13.68	Work experience in a related field
35-1012	First-line supervisors/managers of food preparation and serving workers	850	1,013	163	19	1.28	9.83	Work experience in a related field
35-2011	Cooks, fast food	420	479	59	14	0.87	6.61	Short-term on-the-job training
35-2012	Cooks, institution and cafeteria	299	334	35	12	0.95	8.01	Moderate-term on-the-job training
35-2013	Cooks, private household	10	15	5	50	--	--	Long-term on-the-job training
35-2014	Cooks, restaurant	646	763	117	18	1.00	8.06	Long-term on-the-job training
35-2015	Cooks, short order	237	254	17	7	1.53	7.65	Short-term on-the-job training
35-2019	Cooks, all other	20	22	2	10	1.09	12.57	Moderate-term on-the-job training
35-2021	Food preparation workers	693	825	132	19	1.00	7.10	Short-term on-the-job training
35-3011	Bartenders	182	212	30	16	0.46	7.13	Short-term on-the-job training
35-3021	Combined food preparation and serving workers, including fast food	2,352	2,887	535	23	1.23	6.08	Short-term on-the-job training
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	333	384	51	15	0.81	6.34	Short-term on-the-job training
35-3031	Waiters and waitresses	1,756	2,073	317	18	0.97	6.12	Short-term on-the-job training
35-3041	Food servers, nonrestaurant	105	122	17	16	0.73	7.80	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
35-9011	Dining room and cafeteria attendants and bartender helpers	209	248	39	19	0.66	6.10	Short-term on-the-job training
35-9021	Dishwashers	295	341	46	16	0.75	6.76	Short-term on-the-job training
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	310	372	62	20	1.15	6.21	Short-term on-the-job training
35-9099	Food preparation and serving related workers, all other	11	13	2	18	0.26	7.38	Short-term on-the-job training
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	336	412	76	23	1.15	8.14	Work experience in a related field
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	205	266	61	30	1.76	13.21	Work experience in a related field
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	1,483	1,790	307	21	0.84	7.05	Short-term on-the-job training
37-2012	Maids and housekeeping cleaners	1,520	1,932	412	27	1.09	6.15	Short-term on-the-job training
37-2019	Building cleaning workers, all other	375	494	119	32	0.99	7.00	Short-term on-the-job training
37-2021	Pest control workers	100	133	33	33	1.37	9.59	Moderate-term on-the-job training
37-3011	Landscaping and groundskeeping workers	952	1,229	277	29	1.19	8.45	Short-term on-the-job training
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	147	199	52	35	1.85	8.49	Moderate-term on-the-job training
37-3013	Tree trimmers and pruners	164	218	54	33	2.04	9.46	Short-term on-the-job training
37-3019	Grounds maintenance workers, all other	151	201	50	33	1.97	7.40	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
39-1011	Gaming supervisors	18	25	7	39	0.53	9.57	Work experience in a related field
39-1012	Slot key persons	18	25	7	39	0.72	9.25	Postsecondary vocational award
39-1021	First-line supervisors/managers of personal service workers	205	206	1	0	1.10	9.14	Work experience in a related field
39-2011	Animal trainers	64	56	-8	-13	0.88	6.10	Moderate-term on-the-job training
39-2021	Nonfarm animal caretakers	251	170	-81	-32	0.88	6.06	Short-term on-the-job training
39-3011	Gaming dealers	17	23	6	35	0.26	6.45	Postsecondary vocational award
39-3012	Gaming and sports book writers and runners	20	26	6	30	1.25	10.10	Short-term on-the-job training
39-3019	Gaming service workers, all other	16	20	4	25	0.96	9.39	Moderate-term on-the-job training
39-3031	Ushers, lobby attendants, and ticket takers	61	79	18	30	0.76	6.39	Short-term on-the-job training
39-3091	Amusement and recreation attendants	289	329	40	14	1.55	6.28	Short-term on-the-job training
39-3099	Entertainment attendants and related workers, all other	98	111	13	13	3.10	5.93	Moderate-term on-the-job training
39-4021	Funeral attendants	61	74	13	21	2.46	7.40	Short-term on-the-job training
39-5011	Barbers	47	20	-27	-57	1.26	6.15	Postsecondary vocational award

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39-5012	Hairdressers, hairstylists, and cosmetologists	380	270	-110	-29	0.88	7.53	Postsecondary vocational award
39-5092	Manicurists and pedicurists	31	29	-2	-6	0.66	7.87	Postsecondary vocational award
39-5094	Skin care specialists	30	30	0	0	1.09	7.28	Postsecondary vocational award
39-6011	Baggage porters and bellhops	18	18	0	0	0.48	5.94	Short-term on-the-job training
39-6021	Tour guides and escorts	19	22	3	16	0.60	8.23	Moderate-term on-the-job training
39-6031	Flight attendants	13	28	15	115	0.18	21.93	Long-term on-the-job training
39-9011	Child care workers	1,112	1,423	311	28	0.89	6.03	Short-term on-the-job training
39-9021	Personal and home care aides	400	568	168	42	0.60	9.29	Short-term on-the-job training
39-9031	Fitness trainers and aerobics instructors	314	422	108	34	1.56	8.55	Postsecondary vocational award
39-9032	Recreation workers	207	250	43	21	0.77	7.94	Short-term on-the-job training
39-9041	Residential advisors	19	22	3	16	0.45	10.33	Moderate-term on-the-job training
39-9099	Personal care and service workers, all other	92	65	-27	-29	1.00	6.06	Short-term on-the-job training
41-1011	First-line supervisors/managers of retail sales workers	2,015	2,364	349	17	1.18	17.48	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
41-1012	First-line supervisors/managers of non-retail sales workers	793	985	192	24	1.11	26.54	Work experience in a related field
41-2011	Cashiers, except gaming	3,133	3,320	187	6	1.15	7.46	Short-term on-the-job training
41-2012	Gaming change persons and booth cashiers	38	48	10	26	0.77	31.06	Short-term on-the-job training
41-2021	Counter and rental clerks	280	323	43	15	0.76	7.76	Short-term on-the-job training
41-2022	Parts salespersons	188	192	4	2	1.02	12.03	Moderate-term on-the-job training
41-2031	Retail salespersons	3,458	4,122	664	19	0.90	9.26	Short-term on-the-job training
41-3011	Advertising sales agents	176	271	95	54	1.03	15.33	Moderate-term on-the-job training
41-3021	Insurance sales agents	576	699	123	21	1.03	13.33	Bachelor's degree
41-3031	Securities, commodities, and financial services sales agents	277	411	134	48	0.53	27.86	Bachelor's degree
41-3041	Travel agents	49	66	17	35	0.56	9.64	Postsecondary vocational award
41-3099	Sales representatives, services, all other	587	832	245	42	1.08	15.78	Moderate-term on-the-job training
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	502	578	76	15	1.25	37.78	Moderate-term on-the-job training
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products	1,308	1,550	242	19	1.04	26.98	Moderate-term on-the-job training

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41-9011	Demonstrators and product promoters	117	161	44	38	1.22	7.82	Moderate-term on-the-job training
41-9012	Models	34	42	8	24	1.12	6.04	Moderate-term on-the-job training
41-9021	Real estate brokers	1,073	1,538	465	43	0.83	10.09	Work experience in a related field
41-9022	Real estate sales agents	1,078	1,543	465	43	0.77	10.22	Postsecondary vocational award
41-9031	Sales engineers	41	44	3	7	0.69	26.48	Bachelor's degree
41-9041	Telemarketers	100	120	20	20	0.32	11.32	Short-term on-the-job training
41-9091	Door-to-door sales workers, news and street vendors, and related workers	885	1,111	226	26	1.03	5.87	Short-term on-the-job training
41-9099	Sales and related workers, all other	261	332	71	27	0.95	11.40	Moderate-term on-the-job training
43-1011	First-line supervisors/managers of office and administrative support workers	1,152	1,396	244	21	0.99	15.16	Work experience in a related field
43-2011	Switchboard operators, including answering service	128	134	6	5	0.93	8.47	Short-term on-the-job training
43-2021	Telephone operators	32	31	-1	-3	1.39	18.69	Short-term on-the-job training
43-3011	Bill and account collectors	574	941	367	64	1.70	11.83	Short-term on-the-job training
43-3021	Billing and posting clerks and machine operators	415	485	70	17	0.99	12.28	Moderate-term on-the-job training

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43-3031	Bookkeeping, accounting, and auditing clerks	1,636	2,018	382	23	0.94	11.77	Moderate-term on-the-job training
43-3051	Payroll and timekeeping clerks	169	191	22	13	1.03	12.32	Moderate-term on-the-job training
43-3061	Procurement clerks	40	47	7	18	0.68	12.95	Short-term on-the-job training
43-3071	Tellers	227	308	81	36	0.48	11.92	Short-term on-the-job training
43-4011	Brokerage clerks	31	36	5	16	0.53	8.69	Moderate-term on-the-job training
43-4021	Correspondence clerks	20	29	9	45	1.47	9.13	Short-term on-the-job training
43-4031	Court, municipal, and license clerks	45	53	8	18	0.54	12.09	Short-term on-the-job training
43-4041	Credit authorizers, checkers, and clerks	151	179	28	19	2.88	10.50	Short-term on-the-job training
43-4051	Customer service representatives	1,979	2,802	823	42	1.15	12.20	Moderate-term on-the-job training
43-4061	Eligibility interviewers, government programs	74	83	9	12	0.90	13.34	Moderate-term on-the-job training
43-4071	File clerks	127	97	-30	-24	0.69	9.55	Short-term on-the-job training
43-4081	Hotel, motel, and resort desk clerks	157	156	-1	-1	0.93	7.13	Short-term on-the-job training
43-4111	Interviewers, except eligibility and loan	136	169	33	24	0.74	10.31	Short-term on-the-job training
43-4121	Library assistants, clerical	61	73	12	20	0.70	8.23	Short-term on-the-job training

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43-4131	Loan interviewers and clerks	464	604	140	30	2.30	10.53	Short-term on-the-job training
43-4141	New accounts clerks	26	27	1	4	0.41	14.80	Work experience in a related field
43-4151	Order clerks	176	154	-22	-13	0.85	11.95	Short-term on-the-job training
43-4161	Human resources assistants, except payroll and timekeeping	116	145	29	25	0.91	12.53	Short-term on-the-job training
43-4171	Receptionists and information clerks	719	903	184	26	0.79	9.16	Short-term on-the-job training
43-4181	Reservation and transportation ticket agents and travel clerks	20	22	2	10	0.16	10.22	Short-term on-the-job training
43-4199	Information and record clerks, all other	79	84	5	6	0.43	10.07	Short-term on-the-job training
43-5021	Couriers and messengers	196	257	61	31	0.82	7.50	Short-term on-the-job training
43-5031	Police, fire, and ambulance dispatchers	74	92	18	24	0.95	12.71	Moderate-term on-the-job training
43-5032	Dispatchers, except police, fire, and ambulance	100	116	16	16	0.68	15.55	Moderate-term on-the-job training
43-5041	Meter readers, utilities	37	36	-1	-3	1.03	29.41	Short-term on-the-job training
43-5051	Postal service clerks	47	53	6	13	0.77	19.77	Short-term on-the-job training
43-5052	Postal service mail carriers	237	269	32	14	0.93	19.03	Short-term on-the-job training
43-5053	Postal service mail sorters, processors, and processing machine operators	106	112	6	6	0.68	17.78	Short-term on-the-job training
43-5061	Production, planning, and expediting clerks	283	354	71	25	1.26	14.93	Short-term on-the-job training

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43-5071	Shipping, receiving, and traffic clerks	733	889	156	21	1.24	11.50	Short-term on-the-job training
43-5081	Stock clerks and order fillers	1,236	1,279	43	3	0.93	9.61	Short-term on-the-job training
43-5111	Weighers, measurers, checkers, and samplers, recordkeeping	68	69	1	1	1.12	11.13	Short-term on-the-job training
43-6011	Executive secretaries and administrative assistants	1,159	1,438	279	24	0.89	12.58	Moderate-term on-the-job training
43-6012	Legal secretaries	192	227	35	18	0.68	15.64	Postsecondary vocational award
43-6013	Medical secretaries	340	427	87	26	0.90	13.32	Postsecondary vocational award
43-6014	Secretaries, except legal, medical, and executive	1,526	1,687	161	11	0.98	10.95	Moderate-term on-the-job training
43-9011	Computer operators	88	83	-5	-6	0.87	13.05	Moderate-term on-the-job training
43-9021	Data entry keyers	168	197	29	17	0.62	10.67	Moderate-term on-the-job training
43-9022	Word processors and typists	65	76	11	17	0.43	15.24	Moderate-term on-the-job training
43-9031	Desktop publishers	29	37	8	28	0.78	13.72	Postsecondary vocational award
43-9041	Insurance claims and policy processing clerks	255	294	39	15	1.25	12.79	Moderate-term on-the-job training

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43-9051	Mail clerks and mail machine operators, except postal service	144	178	34	24	1.17	9.21	Short-term on-the-job training
43-9061	Office clerks, general	1,896	2,315	419	22	0.75	9.40	Short-term on-the-job training
43-9071	Office machine operators, except computer	70	101	31	44	0.98	9.14	Short-term on-the-job training
43-9199	Office and administrative support workers, all other	105	115	10	10	0.43	12.72	Short-term on-the-job training
45-1099	Supervisors, farming, fishing, and forestry workers	36	47	11	31	1.10	20.02	Work experience in a related field
45-2041	Graders and sorters, agricultural products	20	24	4	20	0.44	9.14	Work experience in a related field
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	100	132	32	32	0.43	7.68	Short-term on-the-job training
45-2099	Agricultural workers, all other	11	12	1	9	0.96	9.07	Short-term on-the-job training
45-3011	Fishers and related fishing workers	21	23	2	10	0.28	6.12	Moderate-term on-the-job training
45-4021	Fallers	42	50	8	19	2.47	17.67	Moderate-term on-the-job training
45-4022	Logging equipment operators	89	112	23	26	2.70	14.55	Moderate-term on-the-job training
45-4023	Log graders and scalers	23	32	9	39	1.61	22.25	Moderate-term on-the-job training
45-4029	Logging workers, all other	19	27	8	42	1.24	23.50	Moderate-term on-the-job training

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47-1011	First-line supervisors/managers of construction trades and extraction workers	1,027	1,225	198	19	1.23	19.14	Work experience in a related field
47-2021	Brickmasons and blockmasons	178	170	-8	-4	1.46	15.40	Long-term on-the-job training
47-2022	Stonemasons	40	46	6	15	0.96	17.72	Long-term on-the-job training
47-2031	Carpenters	1,229	1,462	233	19	0.92	15.48	Long-term on-the-job training
47-2041	Carpet installers	35	37	2	6	0.71	16.07	Moderate-term on-the-job training
47-2042	Floor layers, except carpet, wood, and hard tiles	31	34	3	10	0.96	16.84	Moderate-term on-the-job training
47-2043	Floor sanders and finishers	31	36	5	16	1.13	16.96	Moderate-term on-the-job training
47-2044	Tile and marble setters	63	73	10	16	1.01	14.07	Long-term on-the-job training
47-2051	Cement masons and concrete finishers	140	171	31	22	0.77	11.93	Moderate-term on-the-job training
47-2061	Construction laborers	1,018	1,256	238	23	0.93	13.14	Moderate-term on-the-job training
47-2071	Paving, surfacing, and tamping equipment operators	65	83	18	28	1.26	13.61	Moderate-term on-the-job training
47-2072	Pile-driver operators	28	34	6	21	1.16	17.29	Moderate-term on-the-job training

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47-2073	Operating engineers and other construction equipment operators	419	529	110	26	1.26	14.25	Moderate-term on-the-job training
47-2081	Drywall and ceiling tile installers	92	104	12	13	0.66	15.80	Moderate-term on-the-job training
47-2082	Tapers	36	43	7	19	0.61	18.34	Moderate-term on-the-job training
47-2111	Electricians	714	800	86	12	1.24	17.96	Long-term on-the-job training
47-2121	Glaziers	41	49	8	20	0.90	13.31	Long-term on-the-job training
47-2131	Insulation workers, floor, ceiling, and wall	35	41	6	17	1.33	16.02	Moderate-term on-the-job training
47-2132	Insulation workers, mechanical	26	33	7	27	1.13	15.35	Moderate-term on-the-job training
47-2141	Painters, construction and maintenance	436	500	64	15	0.99	15.28	Moderate-term on-the-job training
47-2142	Paperhangers	16	18	2	13	1.14	16.09	Moderate-term on-the-job training
47-2151	Pipelayers	130	159	29	22	1.47	13.73	Moderate-term on-the-job training
47-2152	Plumbers, pipefitters, and steamfitters	431	533	102	24	1.11	16.92	Long-term on-the-job training
47-2161	Plasterers and stucco masons	17	20	3	18	0.37	17.05	Long-term on-the-job training
47-2171	Reinforcing iron and rebar workers	13	16	3	23	0.52	14.23	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
47-2181	Roofers	124	156	32	26	0.84	13.88	Moderate-term on-the-job training
47-2211	Sheet metal workers	136	159	23	17	0.90	12.69	Long-term on-the-job training
47-2221	Structural iron and steel workers	52	68	16	31	0.89	13.61	Long-term on-the-job training
47-3011	Helpers, brickmasons, blockmasons, stonemasons, and tile and marble setters	81	74	-7	-9	1.61	8.18	Short-term on-the-job training
47-3012	Helpers, carpenters	92	105	13	14	1.10	9.11	Short-term on-the-job training
47-3013	Helpers, electricians	166	170	4	2	2.04	10.46	Short-term on-the-job training
47-3014	Helpers, painters, paperhangers, plasterers, and stucco masons	18	17	-1	-6	0.90	9.38	Short-term on-the-job training
47-3015	Helpers, pipelayers, plumbers, pipefitters, and steamfitters	127	155	28	22	1.92	11.54	Short-term on-the-job training
47-3016	Helpers, roofers	33	40	7	21	1.87	8.19	Short-term on-the-job training
47-3019	Helpers, construction trades, all other	22	27	5	23	0.75	10.28	Short-term on-the-job training
47-4011	Construction and building inspectors	92	113	21	23	0.93	19.93	Work experience in a related field
47-4021	Elevator installers and repairers	33	45	12	36	1.81	16.74	Long-term on-the-job training
47-4031	Fence erectors	35	46	11	31	1.35	13.87	Moderate-term on-the-job training
47-4041	Hazardous materials removal workers	16	21	5	31	0.51	14.10	Moderate-term on-the-job training

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47-4051	Highway maintenance workers	31	38	7	23	0.29	11.98	Moderate-term on-the-job training
47-4071	Septic tank servicers and sewer pipe cleaners	24	31	7	29	1.20	18.96	Moderate-term on-the-job training
47-4099	Construction and related workers, all other	23	28	5	22	0.49	14.25	Moderate-term on-the-job training
47-5021	Earth drillers, except oil and gas	17	21	4	24	0.85	15.04	Moderate-term on-the-job training
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	498	583	85	17	1.37	25.06	Work experience in a related field
49-2011	Computer, automated teller, and office machine repairers	108	128	20	19	0.74	11.98	Postsecondary vocational award
49-2022	Telecommunications equipment installers and repairers, except line installers	201	269	68	34	1.21	23.32	Long-term on-the-job training
49-2092	Electric motor, power tool, and related repairers	39	40	1	3	2.08	12.01	Postsecondary vocational award
49-2093	Electrical and electronics installers and repairers, transportation equipment	15	19	4	27	1.02	23.11	Postsecondary vocational award
49-2094	Electrical and electronics repairers, commercial and industrial equipment	63	78	15	24	1.04	22.37	Postsecondary vocational award
49-2095	Electrical and electronics repairers, powerhouse, substation, and relay	83	91	8	10	4.86	45.37	Postsecondary vocational award

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49-2096	Electronic equipment installers and repairers, motor vehicles	19	23	4	21	1.19	11.18	Postsecondary vocational award
49-2097	Electronic home entertainment equipment installers and repairers	66	82	16	24	1.47	11.69	Postsecondary vocational award
49-2098	Security and fire alarm systems installers	33	40	7	21	0.68	14.51	Postsecondary vocational award
49-3011	Aircraft mechanics and service technicians	22	26	4	18	0.23	31.73	Postsecondary vocational award
49-3021	Automotive body and related repairers	149	167	18	12	1.00	14.59	Long-term on-the-job training
49-3022	Automotive glass installers and repairers	26	28	2	8	1.45	13.26	Long-term on-the-job training
49-3023	Automotive service technicians and mechanics	733	880	147	20	1.14	15.06	Postsecondary vocational award
49-3031	Bus and truck mechanics and diesel engine specialists	230	287	57	25	1.06	16.34	Postsecondary vocational award
49-3042	Mobile heavy equipment mechanics, except engines	99	123	24	24	1.02	17.71	Postsecondary vocational award
49-3043	Rail car repairers	10	12	2	20	--	--	Long-term on-the-job training
49-3051	Motorboat mechanics	19	24	5	26	0.79	12.44	Long-term on-the-job training
49-3052	Motorcycle mechanics	29	36	7	24	1.31	12.52	Long-term on-the-job training
49-3053	Outdoor power equipment and other small engine mechanics	28	28	0	0	1.00	10.76	Moderate-term on-the-job training

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49-3092	Recreational vehicle service technicians	11	15	4	36	0.97	17.92	Long-term on-the-job training
49-3093	Tire repairers and changers	100	130	30	30	1.24	8.39	Short-term on-the-job training
49-9011	Mechanical door repairers	22	29	7	32	1.86	15.76	Moderate-term on-the-job training
49-9012	Control and valve installers and repairers, except mechanical door	39	46	7	18	1.18	35.92	Moderate-term on-the-job training
49-9021	Heating, air conditioning, and refrigeration mechanics and installers	253	297	44	17	0.99	17.01	Long-term on-the-job training
49-9031	Home appliance repairers	54	66	12	22	0.83	8.02	Long-term on-the-job training
49-9041	Industrial machinery mechanics	503	655	152	30	2.49	17.80	Long-term on-the-job training
49-9042	Maintenance and repair workers, general	1,327	1,617	290	22	1.21	14.08	Moderate-term on-the-job training
49-9043	Maintenance workers, machinery	152	180	28	18	2.41	15.62	Short-term on-the-job training
49-9044	Millwrights	65	90	25	38	1.54	20.59	Long-term on-the-job training
49-9051	Electrical power-line installers and repairers	166	202	36	22	1.86	42.41	Long-term on-the-job training
49-9052	Telecommunications line installers and repairers	181	220	39	22	1.30	18.57	Long-term on-the-job training
49-9062	Medical equipment repairers	19	25	6	32	0.61	14.75	Associate's degree
49-9069	Precision instrument and equipment repairers, all other	23	28	5	22	1.35	29.96	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-9091	Coin, vending, and amusement machine servicers and repairers	70	84	14	20	1.37	9.48	Moderate-term on-the-job training
49-9092	Commercial divers	19	24	5	26	0.95	9.43	Moderate-term on-the-job training
49-9093	Fabric menders, except garment	21	26	5	24	1.13	11.21	Moderate-term on-the-job training
49-9094	Locksmiths and safe repairers	23	33	10	43	0.75	11.17	Moderate-term on-the-job training
49-9095	Manufactured building and mobile home installers	26	33	7	27	2.54	11.11	Moderate-term on-the-job training
49-9096	Riggers	10	12	2	20	--	--	Short-term on-the-job training
49-9097	Signal and track switch repairers	28	34	6	21	1.24	17.45	Moderate-term on-the-job training
49-9098	Helpers--Installation, maintenance, and repair workers	173	204	31	18	1.38	13.06	Short-term on-the-job training
49-9099	Installation, maintenance, and repair workers, all other	61	75	14	23	0.51	13.91	Moderate-term on-the-job training
51-1011	First-line supervisors/managers of production and operating workers	963	1,107	144	15	1.76	27.57	Work experience in a related field
51-2021	Coil winders, tapers, and finishers	35	33	-2	-6	1.98	17.90	Short-term on-the-job training
51-2022	Electrical and electronic equipment assemblers	193	175	-18	-9	1.17	13.64	Short-term on-the-job training
51-2023	Electromechanical equipment assemblers	46	48	2	4	1.01	12.45	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-2031	Engine and other machine assemblers	69	85	16	23	2.01	12.94	Short-term on-the-job training
51-2041	Structural metal fabricators and fitters	128	165	37	29	1.63	14.43	Moderate-term on-the-job training
51-2091	Fiberglass laminators and fabricators	62	68	6	10	1.99	28.52	Moderate-term on-the-job training
51-2092	Team assemblers	1,804	2,128	324	18	1.86	11.64	Moderate-term on-the-job training
51-2099	Assemblers and fabricators, all other	152	176	24	16	0.67	19.16	Moderate-term on-the-job training
51-3011	Bakers	47	53	6	13	0.41	10.99	Long-term on-the-job training
51-3021	Butchers and meat cutters	71	72	1	1	0.71	13.84	Long-term on-the-job training
51-3022	Meat, poultry, and fish cutters and trimmers	41	49	8	20	0.38	12.99	Short-term on-the-job training
51-3092	Food batchmakers	14	17	3	21	0.20	10.85	Short-term on-the-job training
51-3093	Food cooking machine operators and tenders	12	11	-1	-8	0.35	7.44	Short-term on-the-job training
51-4011	Computer-controlled machine tool operators, metal and plastic	121	149	28	23	1.12	13.42	Moderate-term on-the-job training
51-4012	Numerical tool and process control programmers	19	22	3	16	1.38	15.20	Long-term on-the-job training
51-4021	Extruding and drawing machine setters, operators, and tenders, metal and plastic	245	288	43	18	3.39	13.65	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-4022	Forging machine setters, operators, and tenders, metal and plastic	75	65	-10	-13	3.12	13.13	Moderate-term on-the-job training
51-4023	Rolling machine setters, operators, and tenders, metal and plastic	64	81	17	27	2.39	14.89	Moderate-term on-the-job training
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	372	384	12	3	1.78	10.64	Moderate-term on-the-job training
51-4032	Drilling and boring machine tool setters, operators, and tenders, metal and plastic	144	154	10	7	4.41	13.61	Moderate-term on-the-job training
51-4033	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	197	248	51	26	2.55	16.67	Moderate-term on-the-job training
51-4034	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	145	159	14	10	2.85	14.92	Moderate-term on-the-job training
51-4035	Milling and planing machine setters, operators, and tenders, metal and plastic	36	38	2	6	1.58	16.62	Moderate-term on-the-job training
51-4041	Machinists	531	645	114	21	1.78	16.95	Long-term on-the-job training
51-4051	Metal-refining furnace operators and tenders	16	22	6	38	1.15	20.33	Moderate-term on-the-job training
51-4072	Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	116	117	1	1	0.96	10.81	Moderate-term on-the-job training
51-4081	Multiple machine tool setters, operators, and tenders, metal and plastic	118	148	30	25	1.60	13.59	Moderate-term on-the-job training
51-4111	Tool and die makers	96	104	8	8	1.28	18.00	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-4121	Welders, cutters, solderers, and brazers	385	492	107	28	1.24	14.69	Long-term on-the-job training
51-4122	Welding, soldering, and brazing machine setters, operators, and tenders	106	136	30	28	1.92	17.05	Moderate-term on-the-job training
51-4191	Heat treating equipment setters, operators, and tenders, metal and plastic	61	77	16	26	2.90	13.06	Moderate-term on-the-job training
51-4193	Plating and coating machine setters, operators, and tenders, metal and plastic	82	117	35	43	2.56	12.21	Moderate-term on-the-job training
51-4194	Tool grinders, filers, and sharpeners	24	23	-1	-4	1.64	13.37	Moderate-term on-the-job training
51-4199	Metal workers and plastic workers, all other	14	14	0	0	0.38	19.94	Moderate-term on-the-job training
51-5011	Bindery workers	25	29	4	16	0.48	10.49	Short-term on-the-job training
51-5021	Job printers	54	73	19	35	1.36	15.67	Long-term on-the-job training
51-5022	Prepress technicians and workers	42	46	4	10	0.74	15.37	Postsecondary vocational award
51-5023	Printing machine operators	165	183	18	11	1.05	15.36	Moderate-term on-the-job training
51-6011	Laundry and dry-cleaning workers	173	168	-5	-3	0.83	6.81	Moderate-term on-the-job training
51-6021	Pressers, textile, garment, and related materials	127	103	-24	-19	2.12	9.54	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-6031	Sewing machine operators	350	325	-25	-7	1.84	20.48	Moderate-term on-the-job training
51-6041	Shoe and leather workers and repairers	16	19	3	19	0.88	6.82	Long-term on-the-job training
51-6051	Sewers, hand	56	66	10	18	1.01	7.38	Short-term on-the-job training
51-6052	Tailors, dressmakers, and custom sewers	62	72	10	16	0.87	7.72	Long-term on-the-job training
51-6061	Textile bleaching and dyeing machine operators and tenders	325	310	-15	-5	20.84	12.58	Moderate-term on-the-job training
51-6062	Textile cutting machine setters, operators, and tenders	43	43	0	0	2.79	11.36	Moderate-term on-the-job training
51-6063	Textile knitting and weaving machine setters, operators, and tenders	649	727	78	12	20.76	15.47	Long-term on-the-job training
51-6064	Textile winding, twisting, and drawing out machine setters, operators, and tenders	521	526	5	1	14.97	11.41	Moderate-term on-the-job training
51-6091	Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	65	68	3	5	4.76	14.36	Moderate-term on-the-job training
51-6092	Fabric and apparel patternmakers	10	12	2	20	1.44	15.44	Long-term on-the-job training
51-6093	Upholsterers	59	68	9	15	0.77	8.08	Long-term on-the-job training
51-6099	Textile, apparel, and furnishings workers, all other	51	45	-6	-12	2.84	10.65	Short-term on-the-job training
51-7011	Cabinetmakers and bench carpenters	71	89	18	25	0.63	15.61	Long-term on-the-job training
51-7021	Furniture finishers	24	31	7	29	0.70	7.41	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-7041	Sawing machine setters, operators, and tenders, wood	62	82	20	32	1.21	18.34	Moderate-term on-the-job training
51-7042	Woodworking machine setters, operators, and tenders, except sawing	52	65	13	25	0.67	12.78	Moderate-term on-the-job training
51-8013	Power plant operators	84	100	16	19	3.11	42.21	Long-term on-the-job training
51-8021	Stationary engineers and boiler operators	20	24	4	20	0.59	28.94	Long-term on-the-job training
51-8031	Water and liquid waste treatment plant and system operators	74	91	17	23	0.89	15.89	Long-term on-the-job training
51-8091	Chemical plant and system operators	73	73	0	0	1.75	20.26	Long-term on-the-job training
51-9011	Chemical equipment operators and tenders	176	225	49	28	4.44	17.64	Moderate-term on-the-job training
51-9012	Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	13	17	4	31	0.40	15.88	Moderate-term on-the-job training
51-9021	Crushing, grinding, and polishing machine setters, operators, and tenders	53	62	9	17	1.66	19.02	Moderate-term on-the-job training
51-9022	Grinding and polishing workers, hand	28	36	8	29	0.81	13.69	Moderate-term on-the-job training
51-9023	Mixing and blending machine setters, operators, and tenders	305	375	70	23	2.82	13.83	Moderate-term on-the-job training
51-9031	Cutters and trimmers, hand	22	24	2	9	0.95	10.61	Short-term on-the-job training
51-9032	Cutting and slicing machine setters, operators, and tenders	376	411	35	9	6.23	15.84	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-9041	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	82	90	8	10	1.29	12.04	Moderate-term on-the-job training
51-9051	Furnace, kiln, oven, drier, and kettle operators and tenders	84	101	17	20	4.05	15.86	Moderate-term on-the-job training
51-9061	Inspectors, testers, sorters, samplers, and weighers	1,025	1,144	119	12	2.69	12.69	Moderate-term on-the-job training
51-9071	Jewelers and precious stone and metal workers	41	54	13	32	1.00	21.05	Postsecondary vocational award
51-9081	Dental laboratory technicians	46	64	18	39	1.25	20.04	Long-term on-the-job training
51-9111	Packaging and filling machine operators and tenders	404	503	99	25	1.36	9.32	Short-term on-the-job training
51-9121	Coating, painting, and spraying machine setters, operators, and tenders	149	169	20	13	1.81	15.55	Moderate-term on-the-job training
51-9122	Painters, transportation equipment	63	67	4	6	1.44	16.63	Long-term on-the-job training
51-9123	Painting, coating, and decorating workers	53	77	24	45	1.99	13.27	Short-term on-the-job training
51-9132	Photographic processing machine operators	43	27	-16	-37	0.98	8.78	Short-term on-the-job training
51-9191	Cementing and gluing machine operators and tenders	39	37	-2	-5	2.14	15.92	Moderate-term on-the-job training
51-9192	Cleaning, washing, and metal pickling equipment operators and tenders	13	16	3	23	0.97	13.95	Moderate-term on-the-job training
51-9194	Etchers and engravers	13	19	6	46	1.22	16.54	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-9195	Molders, shapers, and casters, except metal and plastic	40	45	5	13	1.10	23.85	Moderate-term on-the-job training
51-9196	Paper goods machine setters, operators, and tenders	308	340	32	10	3.51	18.78	Moderate-term on-the-job training
51-9197	Tire builders	62	32	-30	-48	3.58	9.52	Moderate-term on-the-job training
51-9198	Helpers--Production workers	766	896	130	17	1.83	9.72	Short-term on-the-job training
51-9199	Production workers, all other	93	115	22	24	0.41	17.03	Moderate-term on-the-job training
53-1021	First-line supervisors/managers of helpers, laborers, and material movers, hand	221	284	63	29	1.55	18.46	Work experience in a related field
53-1031	First-line supervisors/managers of transportation and material-moving machine and vehicle operators	202	258	56	28	1.15	19.03	Work experience in a related field
53-2012	Commercial pilots	15	13	-2	-13	0.52	74.07	Postsecondary vocational award
53-3011	Ambulance drivers and attendants, except emergency medical technicians	14	17	3	21	0.84	12.83	Moderate-term on-the-job training
53-3021	Bus drivers, transit and intercity	37	47	10	27	0.23	9.96	Moderate-term on-the-job training
53-3022	Bus drivers, school	379	455	76	20	1.01	7.34	Short-term on-the-job training
53-3031	Driver/sales workers	548	653	105	19	1.13	13.30	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
53-3032	Truck drivers, heavy and tractor-trailer	1,416	1,855	439	31	0.96	14.24	Moderate-term on-the-job training
53-3033	Truck drivers, light or delivery services	920	1,137	217	24	1.01	12.77	Short-term on-the-job training
53-3041	Taxi drivers and chauffeurs	108	128	20	19	0.44	8.59	Short-term on-the-job training
53-3099	Motor vehicle operators, all other	32	37	5	16	0.57	12.22	Short-term on-the-job training
53-4019	Locomotive engineers and operators	18	24	6	33	0.61	27.35	Moderate-term on-the-job training
53-4031	Railroad conductors and yardmasters	26	36	10	38	1.09	29.08	Moderate-term on-the-job training
53-4099	Rail transportation workers, all other	15	14	-1	-7	3.52	19.75	Moderate-term on-the-job training
53-6021	Parking lot attendants	46	52	6	13	0.43	7.40	Short-term on-the-job training
53-6031	Service station attendants	66	75	9	14	0.90	13.90	Short-term on-the-job training
53-7011	Conveyor operators and tenders	70	71	1	1	1.91	15.66	Short-term on-the-job training
53-7021	Crane and tower operators	60	77	17	28	1.66	18.30	Long-term on-the-job training
53-7032	Excavating and loading machine and dragline operators	49	62	13	27	0.83	14.08	Moderate-term on-the-job training
53-7051	Industrial truck and tractor operators	1,042	1,196	154	15	2.11	12.28	Short-term on-the-job training
53-7061	Cleaners of vehicles and equipment	198	217	19	10	0.71	8.86	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
53-7062	Laborers and freight, stock, and material movers, hand	2,540	2,988	448	18	1.35	9.64	Short-term on-the-job training
53-7063	Machine feeders and offbearers	200	216	16	8	1.75	11.51	Short-term on-the-job training
53-7064	Packers and packagers, hand	1,004	999	-5	0	1.55	8.60	Short-term on-the-job training
53-7081	Refuse and recyclable material collectors	144	197	53	37	1.27	11.95	Short-term on-the-job training
		133,349	161,345	27,995	21		\$14.94	

at least
1.25 greater than \$14.94

Source: EMSI



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